

Please find below and/or attached an Office communication concerning this application or proceeding.

SEP 2 4 2002

OIPE			
-	Application No.	Applicant(s)	ĒT.
Office Action Summary	09/972,741	ALLEN, KEITH	ECHO
omet Auton Gunghary	Examiner	Art Unit	- M Z
The MAILING DATE of this COMMARKS	Celine Qian	1636	CENTER
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with th	e correspondence add	ress 5
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any Status			
1) Responsive to communication(s) filed on			•
	s action is non-final.		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims			
4) Claim(s) 1-72 is/are pending in the application.			
4a) Of the above claim(s) is/are withdraw			
5) Claim(s) is/are allowed.			
6) Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) <u>1-72</u> are subject to restriction and/or el Application Papers	ection requirement.		
9) The specification is objected to by the Examiner.			
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.			
Applicant may not request that any objection to the			
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.			
If approved, corrected drawings are required in reply	to this Office action.	and an an analysis	
12) ☐ The oath or declaration is objected to by the Exar	miner.		
Priority under 35 U.S.C. §§ 119 and 120			
13)☐ Acknowledgment is made of a claim for foreign p	priority under 35 U.S.C. § 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:	,		
 Certified copies of the priority documents to 	nave been received.		
Certified copies of the priority documents to	nave been received in Applicat	ion No.	
 Copies of the certified copies of the priority application from the International Bures See the attached detailed Office action for a list of 	documents have been receiv	ed in this National Sta	ge
14) Acknowledgment is made of a claim for domestic p	priority under 35 U.S.C. § 1190	e) (to a provisional an	nlication)
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.			
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informati	y (PTO-413) Paper No(s) Patent Application (PTO-15	. 2)
S. Patent and Trademark Office PTO-326 (Rev. 04-01) Office Action Summany			



DETAILED ACTION

ns 1-72 are pending in the application.

Election/Restrictions

- I. Claims 1-10 and 17-23 and 45-52, drawn to a magnesium-dependent protein phosphatase knockout targeting construct, a method of making said construct, a cell comprising said construct, a non-human transgenic animal comprising said construct, and a method of making said transgenic animal, classified in class 536, subclass 23.1, class 800, subclass 18 and 22.
- II. Claims 11, 28-31, drawn to a method of identifying an agent that modulates the expression of a magnesium-dependent protein phosphatase by using a magnesium-dependent protein phosphatase knockout animal, classified in class 800, subclass 3.
- III. Claims 12, 24-26 and 32-35, drawn to a method of identifying an agent that ameliorates a lung abnormality by using a magnesium-dependent protein phosphatase knockout animal, classified in class 800, subclass 3.
- IV. Claims 12, 27, 32 and 33, drawn to a method of identifying an agent that reduces white blood cell count by using a magnesium-dependent protein phosphatase knockout animal, classified in class 800, subclass 3.
- V. Claims 12, 32 and 53-55, drawn to a method of identifying an agent that modulates anxiety by using a magnesium-dependent protein phosphatase knockout animal, classified in class 800, subclass 3.

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- VI. Claims 12, 32 and 69-71, drawn to a method of identifying an agent that reduces pain by using a magnesium-dependent protein phosphatase knockout mouse, classified in class 800, subclass 3.
- VII. Claims 13, 15, 36-39, drawn to a method of identifying an agent that modulates the expression of magnesium-dependent protein phosphatase by using a magnesium-dependent protein phosphatase knockout cell, classified in class 536, subclass 24.5.
- VIII. Claims 14, 15, and 40-43, drawn to a method of identifying an agent that modulates the function of a magnesium-dependent protein phosphatase gene by using a magnesium-dependent protein phosphatase knockout cell, classified in class 435, subclass 325.
- IX. Claim 16, drawn to an agent that modulates the function of a magnesiumdependent protein phosphatase gene, classified in class 424, subclass 130.1.
- X. Claims 16 and 44, drawn to an agent that modulates the expression of
 magnesium-dependent protein phosphatase gene, classified in class 536, subclass
 24.1.
- XI. Claim 44, drawn to an agent that ameliorates a lung abnormality, classified in class 424, subclass 178.1.
- XII. Claim 44, drawn to an agent that reduces white blood cell count, classified in class 424, subclass 130.1.
- XIII. Claim 56, drawn to an agent that modulates anxiety, classified in class 530, subclass 350.

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- XIV. Claim 57, drawn to a method of treating anxiety by administering a magnesiumdependent protein phosphatase expression modulating agent to a subject, classified in class 536, subclass 24.5.
- XV. Claims 57 and 58, drawn to a method of treating anxiety by administering a magnesium-dependent protein phosphatase activity modulating agent to a subject, classified in class 514, subclass 44.
- XVI. Claims 59-65, drawn to a method of treating anxiety by administering a magnesium-dependent protein phosphatase, classified in class 530, subclass 183.
- XVII. Claims 62 and 66, drawn to a pharmaceutical composition comprising a magnesium-dependent protein phosphatase, classified in class 424, subclass 94.1.
- XVIII. Claims 67 and 68, drawn to a method of reducing pain by administering a magnesium-dependent protein phosphatase expression modulator to a subject, classified in class 514, subclass 44.
- XIX. Claims 67 and 68, drawn to a method of reducing pain by administering a magnesium-dependent protein phosphatase activity modulator to a subject, classified in class 424, subclass 93.1.
- XX. Claim 72, drawn to an agent that reduces pain, classified in class 514, subclass 1.

The inventions are distinct, each from the other for following reasons.

The invention of Groups I, IX-XIII, XVII, and XX are patentably distinct from each other because the inventions are drawn to materially different compositions that are not directly related. Inventions are unrelated if it can be shown that they are not disclosed as capable of use

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together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different modes of operation, different function, and different effects. The products of Groups I, IX-XIII, XVII, and XX have different chemical structures, are made by different methods, and can be used in different methods which require different technical considerations and materially different reagents. Therefore, the inventions of Groups I, IX-XIII, XVII and XX are patentably distinct from each other.

The inventions of Groups II-VIII, XIV-XVI, XVIII and XIX are patentably distinct because the inventions are drawn to methods that require different starting materials and modes of operation. Each method has a distinct purpose and further comprising distinct methodologies and using different products. Therefore, the inventions of II-VIII, XIV-XVI, XVIII and XIX are patentably distinct from each other.

The inventions of Group I, IX-XIII, XVII and XX are patentably distinct from the inventions of Group II-VIII, XVI, XVIII and XIX because the inventions are drawn to compositions and methods that are not directly related. Although some of the products can be used in some of the methods, the inventions is considered to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). For example, the transgenic mouse of Group I can be used in the methods of Groups II-VI. Since the methods of Groups II-VI are four different processes, it is clear that the transgenic mouse of Group I can be used in materially different processes. In addition, the method of Groups II-VI can also be practices with

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magnesium-dependent protein phosphatase knockout somatic cell. Therefore, the inventions of Groups I, IX-XIII, XVII and XX are patentably distinct from the inventions of Groups II-VIII, XVII and XIX.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper. A search of the subject matter of one invention would not be co-extensive with a search of the other invention, and therefore the search would be burdensome. Each invention is capable of supporting a separate patent.

Applicant is advised that reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Celine X Qian whose telephone number is 703-306-0283. The examiner can normally be reached on 9:00-5:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Remy Yucel can be reached on 703-305-1998. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3014 for regular communications and 703-305-3014 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

Celine Qian, Ph.D. August 13, 2002

TERRY MCKELVEY
PRIMARY EXAMINER